



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

E014758

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: APRIL 2027

OWNER OF OPERATOR (Co. #1733)

Barstow Fire Protection District
861 Barstow Rd
Barstow, CA 92311

EQUIPMENT LOCATION (Fac. #4341)

Barstow Fire Station 363
2600 Main Street
Barstow, CA 92311

Description:

PROPANE LPG IC ENGINE, EMERGENCY GENERATOR consisting of: USEPA engine family NKHXB06.2NNL, manufactured in TBD. The exhaust flow is 350 ACFM at 1227 degrees Fahrenheit. Exhaust stack is 5 feet above ground level with an exhaust stack diameter 0.2 feet. Equipment is at an elevation of 2221 feet above sea level.

One Kohler, LPG fired internal combustion engine Model No. KG6208 and Serial No. B396055, Air-To-Fuel Ratio Controller, Oxidation Catalyst, producing 103 bhp with 8 cylinders at 1800 rpm while consuming a maximum of 219 scf/hr. This equipment powers a Kohler Generator Model No. KG40 and Serial No. 33MDGMLJ0021, rated at TBD.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	1.36	gm/bhp-hr
NOx	0.09	gm/bhp-hr
NOx+NMHC	0.19	gm/bhp-hr
PM10	6.73	lbs/MMscf
SOx	0.57	lbs/MMscf

CONDITIONS:

Fee Schedule: 7 (g)

Rating: 1 device

SIC: 9224

SCC: 20301001

Location/UTM(Km):
492E/3860N

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

Barstow Fire Protection District
861 Barstow Rd
Barstow, CA 92311

By: **COPY**
Brad Poiriez
Executive Director

1. This stationary, spark-ignited, internal combustion engine, certified in accordance with 40 CFR Part 1048, and its associated control devices shall be installed, operated and maintained according to the manufacturer's emission-related written instructions. Further, the owner/operator shall change only those emission-related settings that are permitted by the manufacturer. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[40 CFR 60.4231(c), 60.4233(c), 60.4234, and 60.4243(a)(2)(ii)]

2. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.
[District Rule 1302(C)(2)(a)]

3. The air-to-fuel ratio controller shall be used in conjunction with the operation of the three-way catalyst, and shall be maintained and operated appropriately to ensure proper operation of the engine and control device to minimize emissions at all times.
[40 CFR 60.4243(g)]

4. This unit shall be fired on commercial grade Liquefied Petroleum Gas (LPG) fuel only.
[District Rule 1302(C)(2)(a)]

5. This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. This unit shall be operated for no more than 100 hours per year for testing and maintenance, excluding compliance source testing.
[District Rule 1302(C)(2)(a); 40 CFR 60.4243(d)]

6. The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of three (3) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
 - a. Date of each use and duration of each use (in hours);
 - b. Reason for use (testing & maintenance, emergency, required emission testing);
 - c. Calendar year operation in terms of fuel consumption (in standard cubic feet or gallons) or total hours; and,
 - d. Records of all inspections, maintenance and repair actions.[District Rule 1302(C)(2)(a); 40 CFR 60.4245]

7. Engine may operate in response to notification of impending involuntary rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time, the engine is located in the area subject to the rotating outage, the engine is operated no more than 30 minutes prior to the forecasted outage, and the engine is shut down immediately after the utility advises that the outage is no longer imminent or in effect.
[District Rule 1302(C)(2)(a)]

8. This unit shall not be used to provide power during a voluntary agreed to power outage and/or power reduction initiated under an Interruptible Service Contract (ISC), Demand Response Program (DRP), Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier.
[District Rule 1302(C)(2)(a); 40 CFR 60.4243(d)]

9. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b); H&S Code 39607 & 44341-44342; and 40 CFR 51, Subpart A]